

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/723,460	11/26/2003	Louis G. Kovach II	021755-000500US	5953	
20350	7590 11/03/2005		EXAM	INER	
TOWNSEND AND TOWNSEND AND CREW, LLP			MCCLOUD,	MCCLOUD, RENATA D	
TWO EMBA	RCADERO CENTER OOR		ART UNIT	PAPER NUMBER	
SAN FRANCISCO, CA 94111-3834			2837		

DATE MAILED: 11/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after StX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire StX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply vill, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status  1) Responsive to communication(s) filed on 15 August 2005.  2a) This action is FINAL. 2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-20 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) is/are objected to.  8) Claim(s) is/are objected to.		<b>V</b>					
### Examiner ### Renate McCloud ### 2837  ### The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  ###################################		Application No.	Applicant(s)				
Renata McCloud  Renata McCloud		10/723,460	KOVACH ET AL.				
— The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MALINIG DATE OF THIS COMMUNICATION may reply be time may be a validate under the provisions of 37 CFR 1.18(b), no event, however, may reply be timely field that 61 X (b) AVXPTH from the making date of this communication.  Failur to legally within the set or extended period for reply this betature, and a supplication from the making date of this communication.  Failur to legal within the set or extended period for reply this betature. Legal explication to become ABMORDIED (50 U.S. C; \$133).  Any reply received by the Office lifed than throw mentits after the making date of this communication, even if firmely filled, may reduce any samed placed time adjustment. Set 97 CFR 1.79(b).  Status  1) ■ Responsive to communication (s) filed on 15 August 2005.  2a) ■ This action is FINAL.  2b) ■ This action is non-final.  3) ■ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) ■ Claim(s) 1-20 is/are pending in the application.  4a) Of the above claim(s) is/are allowed.  5b	Office Action Summary	Examiner	Art Unit				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  □ Extensions of time rangy to available under the previous of 37 CFR 1.35(a). In an event, however, may a neigh be timely filled  □ If NO pariod to reply is spacified above, the maximum statutory probed wings put and vite graphs (SQ MONTHS from the mailing date of this communication for reply regulated to reply the space of the province							
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNCATION.  Extensions of time may be available under the provisions of 37 FR 1.18(b), hin event, however, may a reply be timely filled after 5X (6) MONTHS from the mailing date of this communication. It is a state of the communication of the commu	The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address				
1)⊠ Responsive to communication(s) filed on 15 August 2005.  2a)⊠ This action is FINAL. 2b)□ This action is non-final.  3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)☑ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5)□ Claim(s) 1-20 is/are allowed. 6)☑ Claim(s) 1-20 is/are rejected. 7)□ Claim(s) is/are objected to. 8)□ Claim(s) is/are objected to. 8)□ Claim(s) is/are objected to by the Examiner. 10)□ The drawing(s) filed on is/are: a)□ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12)□ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)□ None of: 1.□ Certified copies of the priority documents have been received. 2.□ Certified copies of the priority documents have been received in Application No 3.□ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☑ Notice of Draftspersons Patent Drawing Review (PTO-948) 3) □ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/06)	<ul> <li>WHICHEVER IS LONGER, FROM THE MAILING DA</li> <li>Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If NO period for reply is specified above, the maximum statutory period w</li> <li>Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing</li> </ul>	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
2a) ☐ This action is FINAL.  3 ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4 ☐ Claim(s) 1-20 is/are pending in the application.  4a) Of the above claim(s)	Status						
3   Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4   Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5   Claim(s) is/are allowed. 6   Claim(s) is/are objected to. 8   Claim(s) is/are objected to. 8   Claim(s) is/are objected to. 9   The specification is objected to by the Examiner. 10   The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11   The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12   Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1 Certified copies of the priority documents have been received. 2 Certified copies of the priority documents have been received in Application No 3 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s) 1) Notice of Informal Patent Application (PTO-152)	1) Responsive to communication(s) filed on 15 A	<u>ugust 2005</u> .					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)	,-	This action is FINAL. 2b) This action is non-final.					
Algorithms of Claims  4) □ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received in Application No opinion of the declaration is priority documents have been received in Application No application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☑ Notice of References Cited (PTO-892) 1) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) □ Information Disclosure Statement(s) (PTO-1449 or PTO/SB08) 5) ☑ Notice of Informat Patent Application (PTO-152)							
4)	closed in accordance with the practice under E	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 77) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s) 1) □ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) □ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) □ Notice of Informal Patent Application (PTO-152)	Disposition of Claims						
5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) ☐ Notice of Informal Patent Application (PTO-152)	4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.						
6)  Claim(s) 1-20 is/are rejected. 7)  Claim(s)  is/are objected to. 8)  Claim(s)  are subject to restriction and/or election requirement.  Application Papers  9)  The specification is objected to by the Examiner. 10)  The drawing(s) filed on is/are: a)  accepted or b) objected to by the Examiner.   Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).   Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).   a) All b) Some * c) None of:   1. Certified copies of the priority documents have been received.   2. Certified copies of the priority documents have been received in Application No.   3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).   * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)     Interview Summary (PTO-413)	4a) Of the above claim(s) is/are withdrawn from consideration.						
T)	,						
Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  4) Interview Summary (PTO-413) Paper No(s)/Mail Date.  5) Notice of Informal Patent Application (PTO-152)							
Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	·						
9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Oraftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	8)[_] Claim(s) are subject to restriction and/or election requirement.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Oraftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) Notice of Informal Patent Application (PTO-152)	Application Papers						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Oraftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	9)☐ The specification is objected to by the Examine	r.					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Oraftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  1 Notice of Informal Patent Application (PTO-152)	·						
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)							
a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  1. Interview Summary (PTO-413) Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)	Priority under 35 U.S.C. § 119						
1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  1. Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  1. Notice of Informal Patent Application (PTO-152)							
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) ☐ Notice of Informal Patent Application (PTO-152)							
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1)  Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  3)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)							
* See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  * See the attached detailed Office action for a list of the certified copies not received.  4) Interview Summary (PTO-413) Paper No(s)/Mail Date.  Paper No(s)/Mail Date.  Notice of Informal Patent Application (PTO-152)	·						
Attachment(s)  1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  4) Interview Summary (PTO-413) Paper No(s)/Mail Date.  5) Notice of Informal Patent Application (PTO-152)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.  5) Notice of Informal Patent Application (PTO-152)	* See the attached detailed Office action for a list of the certified copies not received.						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)	Attachment(s)						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) Notice of Informal Patent Application (PTO-152)							
, ,, —————————————————————————————————	3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informal					

### **DETAILED ACTION**

# Specification

1. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: Claims 1-11 recite "control wheel" whereas the detailed description of the specification recites, "control knob". Consistency in terminology is required.

# Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hass (US 6179105)
- Claim 1: Hass teaches a method comprising providing a rotating control wheel; determining a speed of the wheel over a period by a user (col. 4:6-16, col. 3:59-63, whoever is operating the apparatus determines the speed); correlating the magnitude of power provided to the vehicle with a speed of the rotation of the wheel (col.4: 26-39,Col. 4:59-5:5). Hass does not teach a period of about 50 ms or less. It would have been obvious to one having ordinary skill in the art at the time the invention was made use a period of about 50ms or less, since it has been

Page 3

Art Unit: 2837

held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves on routine skill in the art. In re Aller, 105 USPQ 233.

Claim 2: Hass teaches except for correlating the power with a speed of rotation comprises multiplying a distance of rotation of the wheel by a factor determined from a time of wheel rotation. It would have been obvious to one having ordinary skill in the art at the time the invention was made to multiply distance by a factor since it was well known in the art that is known that speed is a distance over time, so the factor would be 1/t).

Claim 3: the speed is determined when the wheel rotation exceeds 200ms/rotation (col. 4:4-16,col. 6:7-22 the speed is determined over several periods).

Claim 4: the factor is proportional to the speed (col. 4: 4-16).

Claim 5: correlating the power comprises generating pulses based on the wheel rotation (col. 3:59-63)

Claims 6-8: Hass teaches generating pulses with an encoder (col. 3:36-44). Hass does not teach the encoder components or how the encoder functions. It would have been obvious to one having ordinary skill in the art at the time the invention was made provide such devices since it was well known in the art that encoders comprise such components and function in that manner.

Claim 9: controlling polarity change of the velocity based on the phase difference between voltage signals output by optical detector positioned along a disk rotational path (col. 3:36-44,col. 4:59-5:5, it is known that an encoder functions this way).

Claim 10: correlating the magnitude of power to a rail of a model train set (col.3: 29-36).

Claim 11: powering a remotely controlled train (col. 3:29-36, Fig. 2:6, the controller is remotely positioned away from the train).

Art Unit: 2837

4. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Young et al (US 5749547) in view of Rosenberg et al (US 6956558)

Claim 1: Young et al teach a control knob (fig. 2:36); an encoder (38) determining a speed of the knob over a period (col. 6:38-62); a processor (54) correlating the magnitude of power provided to the vehicle with a signal from the knob (col.6: 38-49), the knob using an encoder similar to those used in mice or track balls (col. 6:53-63). They do not teach the signal being the speed of the rotation of the knob. Rosenberg et al teach correlating the speed of rotation of a knob with the output of a model vehicle (col. 21:44-22:3; col. 19:39-45). They do not teach a period of about 50 ms or less. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus taught by Young et al to use the wheel taught by Rosenberg et al and to use a period of about 50ms or less, in order to control the vehicle and since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves on routine skill in the art. In re Aller, 105 USPQ 233.

Claim 12: Young et al teach a control knob rotated by a user (fig. 2:36); an encoder (38) determining a speed of the knob over a period (col. 6:38-62); a processor (54) correlating the magnitude of power provided to the vehicle with a signal from the knob (col.6: 38-49), the wheel using an encoder similar to those used in mice or track balls (col. 6:53-63). They do not teach the signal being the speed of the rotation of the knob. Rosenberg et al teach correlating the speed of rotation of a wheel with the output of a model vehicle (col. 21:44-22:3; col. 19:39-45). They do not teach a period of about 50 ms or less. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus taught by Young et al to use the wheel taught by Rosenberg et al and to use a period of about 50ms or less, in order to control the vehicle and since it has been held that where the general conditions

Art Unit: 2837

of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves on routine skill in the art. In re Aller, 105 USPQ 233.

Young et al and Rosenberg et al teach the limitations of claims 1, 12. With respect to claims 2-11, 13-20:

Claim 2, 13, and 14: Young et al and Rosenberg et al teach the claimed invention except for correlating the power with a speed of rotation comprises multiplying a distance of rotation of the wheel by a factor determined from a time of wheel rotation. It would have been obvious to one having ordinary skill in the art at the time the invention was made to multiply distance by a factor since it was well known in the art that is known that speed is a distance over time, so the factor would be 1/t).

Claims 3: Young et al and Rosenberg et al teach the claimed invention except for the speed is determined when the wheel rotation exceeds 200ms/rotation. It would have been obvious to one having ordinary skill in the art at the time the invention was made, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980)

Claim 4: Young et al and Rosenberg et al teach the claimed invention except for the factor is proportional to the speed. It would have been obvious to one having ordinary skill in the art at the time the invention was made to multiply distance by a factor since it was well known in the art that is known that speed is a distance over time, so the factor would be 1/t).

Claim 5: Young et al teach correlating the power comprises generating pulses based on the wheel rotation (col. 6:38-62, an encoder)

Claims 6-8,15-18: Young et al teach generating pulses with an encoder (col. 6:54-63).

Rosenberg et al teach generating pulses with an encoder (col. 12:40-41). They do not teach the encoder components or how the encoder functions. It would have been obvious to one having

Application/Control Number: 10/723;460

Art Unit: 2837

ordinary skill in the art at the time the invention was made provide such devices since it was well known in the art that encoders comprise such components and function in that manner.

Claim 9: Young et al and Rosenberg et al teach the claimed invention except for controlling polarity change of the velocity based on the phase difference between voltage signals output by optical detector positioned along a disk rotational path. It would have been obvious to one having ordinary skill in the art at the time the invention was made to control the polarity change of the velocity based on the phase difference between voltage signals output by optical detector positioned along a disk rotational path polarity since it was well known in the art that an encoder functions this way.

Claim 10: Young et al teach correlating the magnitude of power to a rail of a model train set (col. 7:1-3, 65-67).

Claim 11: Young et al teach powering a remotely controlled train (fig. 1; col. 7:57-8:3).

Claim 19: Young et al teach an antenna for communication between a power source and a processor (Fig. 12:142).

Claim 20: Young et al teach a wired communications link between the power source and the processor (fig. 13:150

5. Claims 1- 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Procab manual.

Claim 1: method comprising providing a rotating control wheel; determining a speed of the wheel over a period by a user (whoever is operating the apparatus determines the speed); correlating the magnitude of power provided to the vehicle with a speed of the rotation of the wheel (pg 3 speed control section). They do not teach a period of about 50 ms or less. It would

have been obvious to one having ordinary skill in the art at the time the invention was made use a period of about 50ms or less, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves on routine skill in the art. In re Aller, 105 USPQ 233.

Claim 12: a control knob rotated by a user; an encoder determining a speed of the wheel over a period; a processor correlating the magnitude of power provided to the vehicle with the speed of the rotation of the wheel (pg 3 speed control section). It would have been obvious to one having ordinary skill in the art at the time the invention was made use a period of about 50ms or less, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves on routine skill in the art. In re Aller, 105 USPQ 233.

Claims 2, 13, and 14: correlating the power with a speed of rotation comprises multiplying a distance of rotation of the wheel by a factor determined from a time of wheel rotation (pg 3 speed control section; pg7-8 expansion section; pg 12 steps 6-7; it is known that speed is a distance over time, so the factor would be 1/t).

Claims 3: Procab teaches the claimed invention except for the speed is determined when the wheel rotation exceeds 200ms/rotation. It would have been obvious to one having ordinary skill in the art at the time the invention was made, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980)

Claim 4: the factor is proportional to the speed (pg 3 speed control section; pg7-8 expansion section; pg 12 steps 6-7; it is known that speed is a distance over time, so the factor would be 1/t).

Claim 5: correlating the power comprises generating pulses based on the wheel rotation (pg 3 speed control section)

Claims 6-8,15-18: generating pulses with an encoder (pg 3 speed control section)

Claim 9: Procab teaches the claimed invention except for controlling polarity change of the velocity based on the phase difference between voltage signals output by optical detector positioned along a disk rotational path. It would have been obvious to one having ordinary skill in the art at the time the invention was made to control the polarity change of the velocity based on the phase difference between voltage signals output by optical detector positioned along a disk rotational path polarity since it was well known in the art that an encoder functions this way.

Claim 10: correlating the magnitude of power to a rail of a model train set (pg. 2, introduction).

Claim 11: powering a remotely controlled train (pg 2, introduction).

6. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hass (US 6179105), and further in view of CUI Inc.

Claim 1: Hass teaches a method comprising providing a rotating control wheel; determining a speed of the wheel over a period by a user (col. 4:6-16, col. 3:59-63, whoever is operating the apparatus determines the speed); correlating the magnitude of power provided to the vehicle with a speed of the rotation of the wheel (col.4: 26-39,Col. 4:59-5:5). Hass does not teach a period of about 50 ms or less. CUI Inc teaches an encoder with a frequency response of 500 Hz (see electrical specifications). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus taught by Hass to use the encoder taught by CUI Inc in order to sample the speed over a period of 50 ms or less.

Hass and CUI teach the limitations of claims 1. With respect to claims 2-11, Hass teaches:

Claim 2: correlating the power with a speed of rotation comprises multiplying a distance of rotation of the wheel by a factor determined from a time of wheel rotation (col. 4: 4-16, it is known that speed is a distance over time, so the factor would be 1/t).

Claim 3: the speed is determined when the wheel rotation exceeds 200ms/rotation (col. 4:4-16,col. 6:7-22 the speed is determined over several periods).

Claim 4: the factor is proportional to the speed (col. 4: 4-16).

Claim 5: correlating the power comprises generating pulses based on the wheel rotation (col. 3:59-63)

Claims 6-8: generating pulses with an encoder (col. 3:36-44)

Claim 9: controlling polarity change of the velocity based on the phase difference between voltage signals output by optical detector positioned along a disk rotational path (col. 3:36-44.col. 4:59-5:5, it is known that an encoder functions this way).

Claim 10: correlating the magnitude of power to a rail of a model train set (col.3: 29-36).

Claim 11: powering a remotely controlled train (col. 3:29-36, Fig. 2:6, the controller is remotely positioned away from the train).

#### Response to Arguments

7. Applicant's arguments filed 08/15/2005 have been fully considered but they are not persuasive.

In response to applicant's argument, with respect to claim 1, that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant

relies (i.e., the wheel is turned by a user) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). The claim language reads that a user determines the speed.

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, both Hass and CUI use an encoder to detect the speed. If a certain sampling period is desired, it would be obvious to use a different encoder that can obtain that period.

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

### Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Renata McCloud whose telephone number is (571) 272-2069. The examiner can normally be reached on Mon.- Fri. from 8 am - 5pm.

Art Unit: 2837

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin can be reached on (571) 272-2800 ext. 4. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Renata McCloud Examiner Art Unit 2837

RDM

PRIMARY EXAMINER